- (c) removing non-adherent cells on the upper plate by changing medium.
- 2. (Canceled)
- 3. (Canceled)
- 4. (Previously presented) The method as claimed in claim 1, wherein the cell mixture comprises mammalian mesenchymal stem cells.
 - 5. (Canceled)
- 6. (Previously presented) The method as claimed in claim 4, wherein the cell mixture comprises human mesenchymal stem cells.
 - 7. (Canceled)
 - 8. (Canceled)
- 9. (Previously presented) The method as claimed in claim 1, wherein the mesenchymal stem cells can differentiate into tissues comprising bone, adipose, or cartilage.
- 10. (Previously presented) The method as claimed in claim 1, wherein the mesenchymal stem cells are characterized by CD34-.
- 11. (Previously presented) The method as claimed in claim 1, wherein the culture medium is 10% fetal bovine serum-supplemented Dulbecco's modified Eagle's medium containing 1 g/L of glucose.
- 12. (Withdrawn) An isolated mesenchymal stem cell recovered by the method as claimed in claim 1, which has the capability of self-renewal and pluripotent differentiation.
- 13. (Withdrawn) The mesenchymal stem cell as claimed in claim 12, which can differentiate into tissue comprising bone, adipose, or cartilage.
- 14. (Withdrawn) The mesenchymal stem cell as claimed in claim 12, which is characterized by CD34-.

- 15. (Withdrawn) A composition comprising the mesenchymal stem cell as claimed in claim 12 and a culture medium, wherein the medium expands the mesenchymal stem cell.
- 16. (Withdrawn) The composition as claimed in claim 15, wherein the mesenchymal stem cell is characterized by CD34-.
- 17. (Withdrawn) The composition as claimed in claim 15, wherein the medium comprises DMEM-LG medium containing 10% fetal bovine serum.
- 18. (Withdrawn) A pharmaceutical composition comprising the mesenchymal stem cell as claimed in claim 12 and a pharmaceutically acceptable carrier, wherein the mesenchymal stem cell is present in an amount sufficient to serve as tissue replacement or gene therapy for tissue damaged by age, trauma, and disease.
- 19. (Withdrawn) A pharmaceutical composition as claimed in claim 18, wherein the mesenchymal stem cell can differentiate into tissues comprising bone, adipose, or cartilage.
- 20. (Withdrawn) A composition comprising as claimed in claim 18, wherein the mesenchymal stem cell is is characterized by CD34-.
 - 21-22. (Canceled)
 - 23. (Canceled)
 - 24-31. (Canceled)
- 32. (Withdrawn) the method as claimed in claim 1, further comprising, after step (b), a step of removing cells not adhered on the plate by changing a culture medium.
- 33. (Previously presented) The method as claimed in claim 1, wherein said pores are about 0.4 to 40 microns in diameter.
- 34. (Currently amended) \underline{t} The method as claimed in claim 1, wherein said the mesenchymal stem cell adhering material is plastic.

- 35. (Currently amended) \underline{t} The method as claimed in claim 1, wherein said the mesenchymal stem cells cultured until confluence.
- 36. (Currently amended) <u>the</u> method as claimed in claim 35, said <u>further</u> comprising recovering the mesenchymal stem cells cultured until confluence—for further re-plating to expand the mesenchymal stem cells.
- 37. (Currently amended) <u>*The method as claimed in claim 36</u>, wherein said recovering the mesenchymal stem cells from the upper plate <u>is</u> by using trypsin-EDTA.
- 38. (Currently amended) <u>*The method as claimed in claim 36, said further comprising</u> re-plating the cells <u>to expand the mesenchymal stem cells at a density of 4.times.10.sup.3-10.sup.4/em.sup.2</u>.
- 39. (new) The method as claimed in claim 38, said re-plating the cells at a density of 4.times.10.sup.3-10.sup.4/cm.sup.2.
- 40 (new) The method as claimed in claim 1, wherein said upper plate has no intended surface roughness to expose a greater surface anchoring area to cells for attachment.